AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Listing of Claims:

What is claimed is:

1. (Currently Amended) A transceiver, comprising:

a TX path mixer that up converts a signal to be transmitted, a RX path mixer that down converts a received signal, and a local oscillator having an output providing a mixing frequency for each of said TX and RX mixers;

further comprising a directional coupler comprising an input node coupled to said output of said local oscillator and further comprising a first output node coupled to said TX path mixer and a second output node coupled to said RX path mixer, the directional coupler further comprising an isolation node, wherein an impedance terminating the isolation node is different from a load impedance of the first output node.

- 2. (Original) A transceiver as in claim 1, wherein the directional coupler acts as an unequal power divider.
- 3. (Previously Presented) A transceiver as in claim 1, wherein the directional coupler prevents a TX signal from being reflected back on a RX signal.
- 4. (Original) A transceiver as in claim 1, wherein the directional coupler operating frequency range is greater than the output frequency of the local oscillator.
- 5. (Original) A transceiver as in claim 1, wherein the directional coupler provides an isolation path from the TX path mixer to the RX path mixer.
- 6. (Original) A transceiver as in claim 1, wherein the directional coupler covers dual bands for

10/698,132

Art Unit:

2618

dual band single output local oscillator configurations.

7. (Original) A transceiver as in claim 1, wherein the directional coupler prevents single tone desensitization.

8. (Original) A transceiver as in claim 1, wherein the directional coupler provides higher output power for the RX path mixer.

9. (Original) A transceiver as in claim 1, wherein the directional coupler loss is less than 10 dB.

10. (Currently Amended) A transceiver as in claim 1, wherein the impedance terminating the isolation node comprises a terminated node of the directional coupler provides a 50 ohm load to absorb reverse power.

11. (Previously Presented) A transceiver as in claim 1, wherein an isolation path of the directional coupler provides high reverse isolation from a TX path.

12. (Canceled).

13. (Currently Amended) A method for generating transceiver signals, comprising:

up converting a signal to be transmitted via a TX path mixer, down converting a received signal via a RX path mixer,

providing a local oscillator having an output providing a mixing frequency for each of said TX and RX mixers;

coupling the output of said local oscillator to an input node of a directional coupler, and coupling said TX path mixer to a first output node of said directional coupler and

10/698,132

Art Unit:

2618

coupling said RX path mixer to a second output node of said directional coupler, the directional coupler further comprising an isolation node, wherein an impedance terminating the isolation node is different from a load impedance of the first output node.

14. (Original) A method as in claim 13, wherein the directional coupler acts as an unequal power divider.

15. (Previously Presented) A method as in claim 13, wherein the directional coupler prevents a TX signal from being reflected back on a RX signal.

16. (Original) A method as in claim 13, wherein the directional coupler provides higher output power for the RX path mixer.

17. (Original) A method as in claim 13, wherein the directional coupler provides an isolation path from the TX path mixer to the RX path mixer.

18. (Previously Presented) A method as in claim 13, wherein an isolation path of the directional coupler provides high reverse isolation from a TX path.

19. (Currently Amended) A device, comprising:

a radio frequency transceiver comprising:

a TX path mixer that up converts a signal to be transmitted; a RX path mixer that down converts a received signal; a local oscillator having an output providing a mixing frequency for each of said TX and RX mixers; and a directional coupler comprising an input node coupled to said output of said local oscillator and further comprising a first output node coupled to said TX path mixer and a second output node coupled to said RX path mixer, the directional coupler further comprising an isolation node, wherein an impedance terminating the isolation node is different from a load impedance of the first output node.

10/698,132

Art Unit:

2618

20. (Canceled).

21. (Previously Presented) A device according to claim 19, wherein the directional coupler is a

multi band directional coupler.

22. (Previously Presented) A device according to claim 19, further comprising a TX power

amplifier for receiving the upconverted signal from the TX path mixer, wherein an output load

from the TX power amplifier is not an exact conjugate match to the TX power amplifier output

impedance.

23. (Previously Presented) A device according to claim 19, wherein a TX signal is prevented

from being reflected back to a RX signal.

24. (Previously Presented) A device according to claim 19, wherein the directional coupler is

configured to operate in multiple bands.

25. (Previously Presented) A device according to claim 19, wherein the device comprises a

mobile terminal.

26. (Previously Presented) A device according to claim 19, wherein the device comprises a

cellular mobile communication device.

27. (Currently Amended) A circuit comprising:

a TX path mixer that up converts a signal to be transmitted;

a RX path mixer that down converts a received signal;

a local oscillator having an output providing a mixing frequency for each of said TX and

5

10/698,132

Art Unit:

2618

RX mixers; and

a directional coupler comprising an input node coupled to said output of said local

oscillator and further comprising a first output node coupled to said TX path mixer and a second

output node coupled to said RX path mixer, the directional coupler further comprising an

isolation node and an amplifier coupled to the TX path mixer, the isolation node being

electrically connected to circuit ground through an impedance that is substantially matched to an

output load impedance of the amplifier coupled to the TX path mixer.

28. (Canceled).

29. (Currently Amended) A circuit according to claim 27 28, wherein the isolation node

impedance is not exactly matched to the output load impedance of the TX path mixer amplifier.

30. (Previously Presented) A circuit according to claim 27, wherein the directional coupler acts as

an unequal power divider.

31. (Previously Presented) A circuit according to claim 27, wherein the directional coupler

prevents a TX signal from being reflected back on a RX signal.

32. (Previously Presented) A circuit according to claim 27, wherein the directional coupler

operating frequency range is greater than the output frequency of the local oscillator.

33. (Previously Presented) A circuit according to claim 27, wherein the directional coupler

provides an isolation path from the TX path mixer to the RX path mixer.

34. (Previously Presented) A circuit according to claim 27, wherein the directional coupler is

operable over a plurality of frequency bands for multi band single output local oscillator

configurations.

6

10/698,132

Art Unit:

2618

35. (Previously Presented) A circuit according to claim 27, wherein the circuit is embodied in an

integrated circuit.

36. (Currently Amended) A device comprising:

first means for mixing a first signal with a mixing frequency to up convert the first signal

for transmission;

second means for mixing a second signal with the mixing frequency to down convert the

second signal that has been received; and

means for generating the mixing frequency; and

means for coupling the mixing frequency to said first and second mixing means, said

coupling means providing isolated paths for providing the mixing frequency to the first and

second mixing means, the means for coupling further comprising an isolation node and an

amplifier coupled to the first means for mixing a first signal, the isolation node being electrically

connected to circuit ground through an impedance that is substantially matched to an output load

impedance of the amplifier coupled to the first means for mixing a first signal.

37. (Currently Amended) A device according to claim 36, wherein the coupling means-is

comprised of a directional coupler prevents comprising means to prevent a signal from being

reflected from said first means for mixing to said second means for mixing.

7